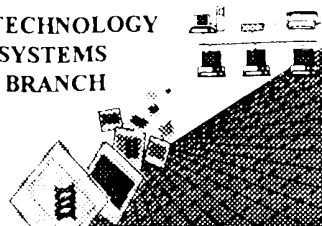


B. Whiteman

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



#11

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/932,451C

Source:

1622 RUSH

Date Processed by STIC:

3/6/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Global Express, Certified Mail® Service

Box Sequence, Room 1B05-Mailroom, U.S. Patent and Trademark Office, Technology Center 1600, Arlington, VA 22202

Revised 01/29/2002

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/932,451C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ✓ PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.



1600

## RAW SEQUENCE LISTING

DATE: 03/06/2003

PATENT APPLICATION: US/09/932,451C

TIME: 10:20:11

Input Set : A:\SEQLIST.txt

Output Set: N:\CRF4\03062003\I932451C.raw

3 <110> APPLICANT: OZAWA, Keiya  
 4 SHIMPO, Masahisa  
 5 IHEDA, Uichi  
 6 MAEDA, Yoshikazu  
 7 SHIMADA, Kazuyuki  
 9 <120> TITLE OF INVENTION: ADENO-ASSOCIATED VIRUS-MEDIATED DELIVERY OF ANGIOGENIC  
 10 FACTORS  
 12 <130> FILE REFERENCE: 0800-0026  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/932,451C  
 C--> 15 <141> CURRENT FILING DATE: 2001-08-17  
 17 <150> PRIOR APPLICATION NUMBER: 60/226,056  
 18 <151> PRIOR FILING DATE: 2000-08-17  
 20 <160> NUMBER OF SEQ ID NOS: 2  
 22 <170> SOFTWARE: PatentIn Ver. 2.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 576  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: VEGF-165  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: CDS  
 34 <222> LOCATION: (1)..(576)  
 36 <400> SEQUENCE: 1  
 37  
 38 Met Asn Phe Leu Leu Phe Thr Val His Thr Ser Leu Ala Ser Leu Ser  
 40  
 41  
 42 Tyr Leu His His Ala Lys Thr Ser Val Ala Ala Ser Met Ala His Gly  
 43  
 44  
 45 gga gga cca aat cat cag gaa atg atg aat tta atg cat ggc tat cag  
 46 Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln  
 47  
 48  
 49  
 50 Arg Ser Tyr Tyr His Phe His Thr Leu Val Asp Leu His Ala Val

2.2-  
 Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/932,451C

DATE: 01/06/2003

TIME: 10:20:11

Input Set : A:\SEQLIST.txt

Output Set: N:\CRF4\03062003\I932451C.raw

```

62 Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
63          100          105          110
65 caa ggc cag cac ata gga gag atg agc ttc cta cag cac aac aaa tgt 384
66 Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
67          115          120          125
68 gaa tgc aga cca aag aaa gat aga gca aga caa gaa aat ccc tgt ggg 432
69 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly
70          130          135          140
71 cct tgc tca gag cgg aga aag cat ttg ttt gta caa gat ccg cag acg 480
72 Pro Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln Thr
73          145          150          155          160
74 tgt aaa tgt tcc tgc aaa aac aba gac tgc cgt tgc aac gcg aqg caq 528
75 Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Gln
76          165          170          175
77 ctt gag tta aac gaa cgt act tgc aga tgt gac aag ccg agg cgg tga 576
78 Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
79          180          185          190

```

60 &lt;210&gt; SEQ ID NO: 2

61 &lt;211&gt; LENGTH: 191

62 &lt;212&gt; TYPE: PRT

63 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 91 &lt;220&gt; FEATURE:

W--&gt; 91 &lt;223&gt; OTHER INFORMATION:

W--&gt; 91 &lt;400&gt; 2

```

90 Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
91 1 5 10 15
92 Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
93 20 25 30
94 Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
95 35 40 45
101 Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
102 50 55 60
104 Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
105 65 70 75
107 Met Asn Cys Lys Lys Tyr Tyr Asn Asp Lys Gly Leu His Tyr Val Leu
108 80 85 90
110 Thr His Asn Ser Asn Ile Thr Met Gln Ile Met Asn Ile Lys Ile His
111 95 100 105
112 Gln Gly Gln His Ile Gly Ala Met Ser His Leu Asn His Asn Lys Tyr
113 110 115 120 125
116 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly
117 130 135 140
119 Pro Cys Ser Glu Asn Asn Lys His Leu Ile Val Gln Asp Pro Gln Thr
120 145 150 155 160
122 Thr Lys Cys Ser Thr Lys Asn Thr Asn Ser Asn Thr Lys Ala Asn Thr

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/932,451C

DATE: 03/06/2003  
TIME: 10:20:12

Input Set : A:\SEQLIST.txt  
Output Set: N:\CRF4\03062003\I932451C.raw

Use of <220> Feature(NEW RULES):

Sequence(s) \_\_ are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:2

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/932,451C

DATE: 08/06/2003

TIME: 10:20:12

Input Set : A:\SEQLIST.txt

Output Set: N:\CRF4\03062003\I932451C.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:91 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:2, <213>  
ORGANISM:Artificial Sequence  
L:91 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:2, <213>  
ORGANISM:Artificial Sequence  
L:91 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:91